Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
1. Coding sequence	XM_031289	Interleukin 8	IL8
2. Coding sequence	XM_051900	Prostaglandin-endoperoxide synthase 2	PTGS2
3. Coding sequence	M94582	Interleukin 8 receptor B	ILR8RB
4. Coding sequence	NM_005555	Lipocalin 2	LCN2
5. Coding sequence	NM_000331	Serum amyloid A1	SAA1
6. Coding sequence	NM_000757	Macrophage colony stimulating factor 1	CSF1 (MCSF1)
7. Coding sequence	X54489	Melanoma growth stimulatory activity	MGSA
8. Coding sequence	NM_002090	Chemokine (C-X-C motif) ligand 3	CXCL3
9. Coding sequence	XM_032429	Secreted phosphoprotein 1	SPP1 (OPN)
10. Coding sequence	M64349	Cyclin D	CCND1
11. Coding sequence	AX057136	c-Myc	c-Myc
12. Coding sequence	L25610	Cyclin-dependent kinase inhibitor	HUMCDK1
13. Coding sequence	BC021998	Cyclin-dependent kinase inhibitor 2A	CDKN2A
14. Coding sequence	NM_058195	Alternative reading frame p14	CDKN2A
15. Coding sequence	NM_005036	Peroxisome proliferative activated receptor, alpha	PPARA
16. Coding sequence	XM_003059	Peroxisome proliferative activated receptor, gamma	PPARG
17. Coding sequence	NM_006238	Peroxisome proliferative activated receptor, delta	PPARD
18. Coding sequence	XM_030326	CD44 antigen	CD44
19. Coding sequence	XM_044882	Prostaglandin-endoperoxide synthase 1	PTGS1
20. Coding sequence	NM_002131	High-mobility group AT-hook1 isoform B	HMGA1
21. Coding sequence	X54942	CKSHS2	CKSHS2
22. Coding sequence	U22055	100 kDa coactivator	p100 coactivator
23. Protein	XP_031289	Interleukin 8	IL8
24. Protein	XP_051900	Prostaglandin-endoperoxide synthase 2	COX2
25. Protein	AAA36108	Interleukin 8 receptor B	CXCR2
26. Protein	NP_005555	Lipocalin 2	LCN2
27. Protein	NP_000331	Serum amyloid A1	SAA1
28. Protein	NP_000757	Macrophage colony stimulating factor 1	MCSF1
29. Protein	CAA38361	Melanoma growth stimulatory activity	Groα
30. Protein	NM-002090	Chemokine (C-X-C motif) ligand 3	Groγ

Fig. 1

Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
31. Protein	XP_032429	Osteopontin	OPN
32. Protein	AAA52136	Cyclin D	cyclin D1
33. Protein	CAC22425	c-Myc	c-Myc
34. Protein	AAA16109	Cyclin-dependent kinase inhibitor	p21
35. Protein	AAH21998	Cyclin-dependent kinase inhibitor 2A	p16
36. Protein	NP_047862	Alternative reading frame p14	p14ARF
37. Protein	NP_005027	Peroxisome proliferatie activated receptor, alpha	PPARα
38. Protein	XP_003059	Peroxisome proliferatie activated receptor, gamma	PPARγ
39. Protein	NP_006229	Peroxisome proliferatie activated receptor, delta	PPARδ
40. Protein	XP_030326	CD44 antigen	CD44
41. Protein	XP_044882	Prostaglandin-endoperoxide synthase 1	COX1
42. Protein	NP_002122	High-mobility group AT-hook1 isoform B	HYGYI
43. Protein	CAA38703	CKS1 protein homolog	CKS1
44. Protein	AAA80488	100 kDa coactivator	p100 coactivator
45. Forward primer		Interleukin 8	IL8
46. Reverse primer			
47. Forward primer		Prostaglandin-endoperoxide synthase 2	PTGS2
48. Reverse primer			
49. Forward primer		Interleukin 8 receptor B	ILR8RB
50. Reverse primer			
51. Forward primer		Lipocalin 2	LCN2
52. Reverse primer			
53. Forward primer		Serum amyloid A1	SAA1
54. Reverse primer			
55. Forward primer		Macrophage colony stimulating factor 1	CSF1 (MCSF1)
56. Reverse primer			
57. Forward primer		Melanoma growth stimulatory activity	MGSA
58. Reverse primer			
59. Forward primer		Chemokine (C-X-C motif) ligand 3	MGSA
60. Reverse primer			

Fig. 1

Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
61. Forward primer		Secreted phosphoprotein 1	SPP1 (OPN)
62. Reverse primer			
63. Forward primer		Cyclin D	CCND1
64. Reverse primer			
65. Forward primer		c-Myc	c-Myc
66. Reverse primer			
67. Forward primer		Cyclin-dependent kinase inhibitor	HUMCDK1
68. Reverse primer			
69. Forward primer		Cyclin-dependent kinase inhibitor 2A	CDKN2A
70. Reverse primer			
71. Forward primer		Alternative reading frame p14	CDKN2A
72. Reverse primer			
73. Forward primer		Peroxisome proliferative activated receptor, alpha	PPARα
74. Reverse primer			
75. Forward primer		Peroxisome proliferative activated receptor, ganna	PPARγ
76. Reverse primer			
77. Forward primer		Peroxisome proliferative activated receptor, delta	PPARδ
78. Reverse primer			
79. Forward primer		CD44 antigen	CD44
80. Reverse primer			
81. Forward primer		Prostaglandin-endoperoxide synthase 1	COX1
82. Reverse primer			
83. Forward primer		High-mobility group AT-hook1 isoform B	HMGYI
84. Reverse primer			
85. Forward primer		CKS1 protein homolog	CKS1
86. Reverse primer			
87. Forward primer		100 kDa coactivator	p100 coactivator
88. Reverse primer			

Fig. 1

Relative Gene Expression Levels in Colon Polyps (Average ± SE)

No.	Genes	Wild-Type Littermate	Individual Poly	P Value
1	SDF-1	1.23±0.34	11.02±2.45	0.003
2	COX2	1.41±0.25	87.48±16.50	<0.001
3	CXCR2	1.41±0.35	11221±23.76	<0.001
4	OPN	1.62±0.60	463.37±130.49	0.004
5	MCSFI	1.05±0.15	4.26±1.60	0.08
6	PPARδ	1.16±0.27	0.44±0.05	0.04

FIG. 2A

Relative Gene Expressions in Normal-Appearing Mucosa from Colon Cancer

	Sigmoid and Rectum						Ascending Colon			
	NB	H002	H004	H006	H008	H011	NB	H003	H009	H010
IL-8	1.80±0.26	28.91	7.14	6.88	18.35	24.67	1.72±0.35	16.03	4.90	28.26
COX2	1.85±0.29	13.54	10.34	18.23	14.63	1.87	1.74±0.45	25.48	11.98	33.06
CXCR2	1.31±0.14	11.35	6.82	6.85	7.18	100.20	1.26±0.17	10.23	22.62	11.20
OPN	2.11±0.52	10.85	9.84	11.88	21.29	3.41	1.43±0.20	26.83	23.97	64.13
MCSF1	1.69±0.19	4.49	11.88	12.84	7.24	7.98	1.57±0.22	12.40	17.89	14.97
PPAR-δ	1.14±0.07	0.10	0.09	0.12	1.28	0.96	1.16±0.11	0.09	1.10	0.30

FIG. 2B

Dependent Variable: Il-8, M-CSF-1, COX-2, OPN, p21, PPAR-γ, CXCR2, CD44, PPAR-δ

Results for Multivariate Analysis: Wilks Lambda Criterion

Source	Lambda	probability
Cancer	0.989	0.0086

FIG. 2C

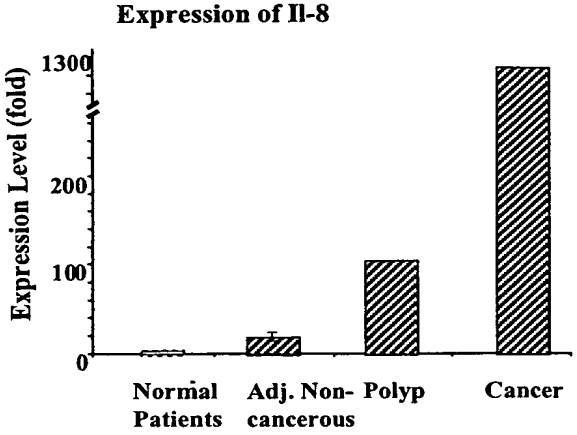

Fig. 3A

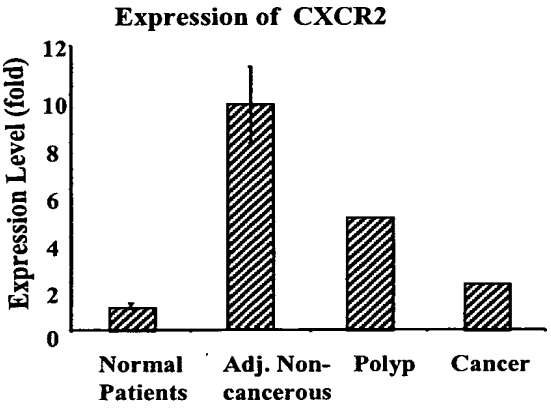

Fig. 3B

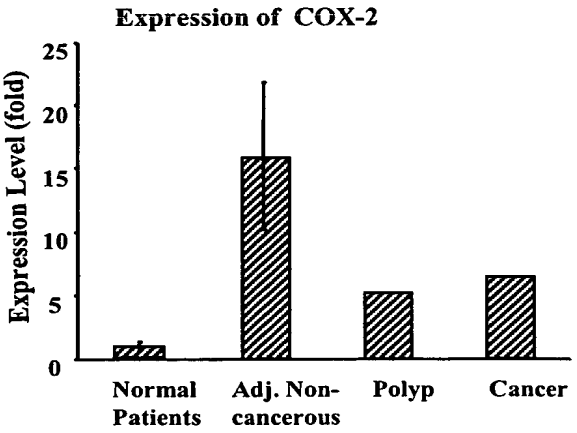

Fig. 3C

IL-8

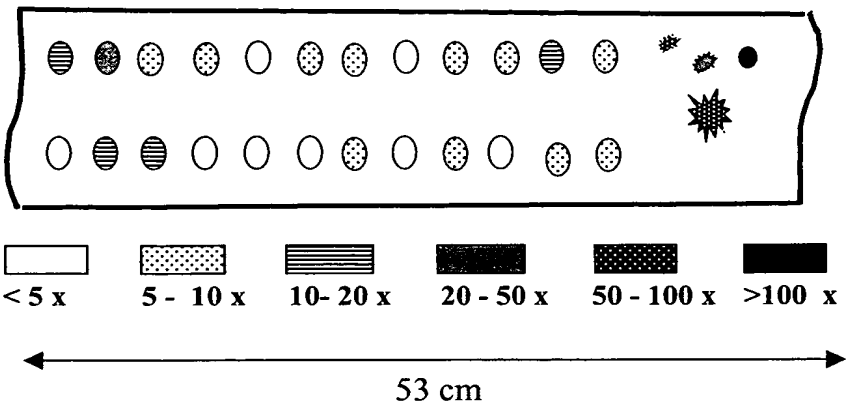

Fig. 4A

COX2

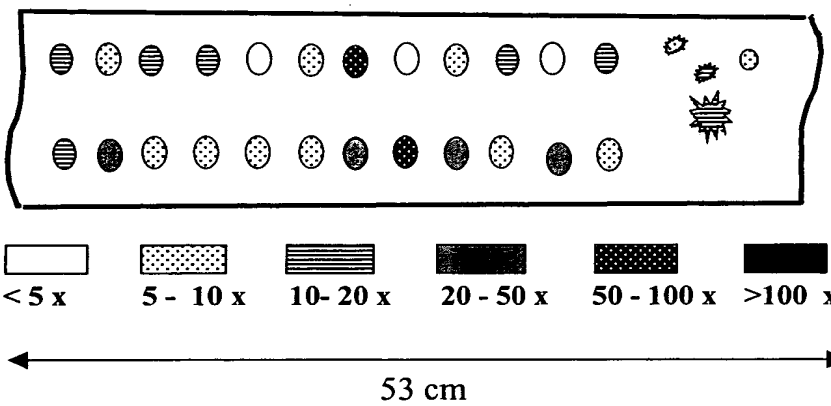

Fig. 4B

CXCR2

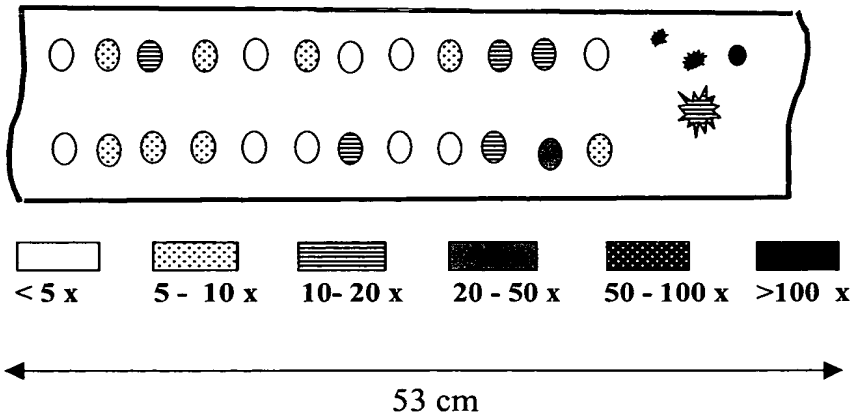

Fig. 4C